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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,256	03/01/2002	Kishan Khemani	11527.354	4244
22913	7590 07/24/2006		EXAMINER	
	N NYDEGGER	WOODWARD, ANA LUCRECIA		
(F/K/A WORKMAN NYDEGGER & SEELEY) 60 EAST SOUTH TEMPLE			ART UNIT	PAPER NUMBER
1000 EAGLE GATE TOWER			1711	
SALT LAKE CITY, UT 84111			DATE MAILED: 07/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Assistant Court		10/087,256	KHEMANI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Ana L. Woodward	1711				
Period fo	The MAILING DATE of this communication app or Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	nely filed the mailing date of this cor D (35 U.S.C. § 133).				
Status	<i>A</i>	1					
1)	Responsive to communication(s) filed on	ar 3, 2006					
	*	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
-/-	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi		•					
47/12	claim(s) is/are pending in the application of the above claim(s) 6, 3, is/are withdraw	^					
7/12	4a) Of the above claim(s) 4.3 is are withdraw	yn from consideration					
5)□	Claim(s) is/are allowed	WITHOUT CONSIDERATION.					
6) [[]	Claim(s) is/are allowed Claim(s) 157 is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	ion Papers						
	The specification is objected to by the Examine						
·	The drawing(s) filed on is/are: a) acce		Evaminer				
. 4/	Applicant may not request that any objection to the	• •					
	Replacement drawing sheet(s) including the correcti	• • • • • • • • • • • • • • • • • • • •	• •	R 1.121(d).			
11)	The oath or declaration is objected to by the Ex			• •			
	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119(a)	I-(d) or (f)				
	☐ All b)☐ Some * c)☐ None of:	priority direct oo o.o.o. 3 110(a)	-(u) or (i).				
,-	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents		on No.				
	3. Copies of the certified copies of the prior	• •		Stage			
	application from the International Bureau	(PCT Rule 17.2(a)).		_			
* 8	See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachmen	t(s)						
1) Notice	e of References Cited (PTO-892)	4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P		-152)			
	r No(s)/Mail Date	6) 🔲 Other:	• • •				

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DETAILED ACTION

Election/Restrictions

1. Claims 6, 13, 27 and 28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on June 24, 2004.

Claim Rejections - 35 USC § 112

- 2. Claims 1, 5, 7-12 and 14-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed requirement that the composition be "substantially free of thermoplastic starch made using high boiling liquid plasticizers" lacks express antecedent basis and, as such constitutes new matter.
- 3. Claim1, 5, 7-12 and 14-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claimed "substantially free" is indefinite as to scope and meaning.

In claim 26, line 4, "aliphatic diol" is broader in scope than the recited 1,4-butanediol per base claim1

Claim Rejections - 35 USC § 102/103

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 23-25 are rejected under 35 U.S.C. 102(a and/or e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over U.S. 6,348,524 (Bastioli et al).

Bastioli et al disclose biodegradable compositions comprising a natural starch, reading on the presently claimed stiff polymer, Ecoflex, reading on the presently claimed aliphatic-aromatic copolyester, and additional components, i.e., glycerine, water and erucamide (example 5).

The claims, as presently recited, do not preclude the presence of patentees' plasticizer. This is because said plasticizer is not used to prepare the starch component. It is noted that applicants' claims are open to the inclusion of optional components, inclusive of plasticizers (page 32 of specification).

Claim Rejections - 35 USC § 103

7. Claims 1, 5, 7-12, 14-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 6,096,809 (Lorcks et al) further in view of U.S. 5,817,721 (Warzelhan et al) as per reasons of record.

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Lorcks et al disclose films derived from biologically degradable compositions comprising

- 1) thermoplastic starch,
- 2) at least one polymer selected from the group consisting of aromatic polyesters, polyester copolymers having both aliphatic and aromatic blocks, polyesteramides, polyethylene oxide polymers, polyglycols and polyester urethanes and
- 3) at least one aliphatic polyester or copolyester. The thermoplastic starch is included in an amount in a range from about 10% to about 95% by weight of the composition (with emphasis).

Examples 6 and 23 differ in essence from the rejected claims in the use of high amounts of thermoplastic starch. Given the inexactitude of the presently claimed "substantially free", it is maintained that compositions according to the reference having lower amounts of thermoplastic starch, e.g., *about 10%*, would not distinguish over those presently claimed.

Claims 20-24 (now drawn to elected invention) are incorporated into this rejection and rendered obvious by the Lorcks et al's disclosure of adding fillers. The addition of from 0-80% by weight of fillers, particulate or fibrous organic and inorganic, to analogous biodegradable polymer compositions, is well known in the art as evidenced by Warzelhan et al.

8. Claims 1, 5, 7-12 and 14-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 5,883,199 (McCarthy et al) in view of U.S. 5,817,721 (Warzelhan et al) as per reasons of record.

As to applicants' aliphatic-aromatic copolyester species per claims 1 and 20, given that polybutylene adipate is a preferred aliphatic polyester component, it would have been obvious to one having ordinary skill in the art to have used a copolyester of said polybutylene adipate

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(aliphatic polyester) and polyethylene terephthalate (aromatic polyester), as per the disclosure at column 6, lines 5-12 with the reasonable expectation of success. Accordingly, absent evidence of unusual or unexpected results for the use of said particular copolyester, no patentability can be seen.

Double Patenting

9. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

10. Claims 1, 5, 7-12 and 14-26 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims of copending Application No. 11/103,999. Although the conflicting claims are not identical, they are not patentably distinct from each other because they contain overlapping subject matter.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Response to Arguments

11. Applicant's arguments filed May 03, 2006 have been fully considered but they are not persuasive.

The claimed language "substantially free of thermoplastic starch made using high boiling liquid plasticizers" does not serve to distinguish over Lorcks et al. Said language, when given its broadest reasonable interpretation, reads on compositions as per Lorcks et al comprising about 10% thermoplastic starch.

As to the rejection based on McCarthy et al, it is noted the aliphatic polyester component, as exemplified by the BIONOLLE materials (column 5, lines 23-33, etc.), is governed by glass transitions less than 0 C. In this regard, attention is directed to applicants' own specification disclosure at page 29. Accordingly, since McCarthy et al disclose the aliphatic-aromatic copolyester as a suitable substitute for said wholly aliphatic polyester (see e.g., claim 8), it would follow that said copolyesters would possess similar glass transition temperatures.

As to applicants' preferred aliphatic-aromatic copolyester per claims 1 and 20, given that polybutylene adipate is a preferred aliphatic polyester component, it would have been obvious to one having ordinary skill in the art to have used a copolyester of said polybutylene adipate (aliphatic polyester) and polyethylene terephthalate (aromatic polyester), as per the disclosure at column 6, lines 5-12 with the reasonable expectation of success.

As to claim 25, applicants' arguments are not understood given that said claim recites polylactic acid as the stiff polymer.

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Conclusion

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12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ana L. Woodward whose telephone number is (571) 272-1082. The examiner can normally be reached on Monday-Friday (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tall-free).

Ana L. Woodward Primary Examiner Art Unit 1711